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APPLICATION NO		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/721,524	.	11/25/2003	Richard A. Blanchard	03-C-040 (850063.602)	5333	
30423	7590	06/07/2006		EXAMINER		
STMICRO	DELECTI	RONICS, INC.	ERDEM, FAZLI			
MAIL STA			ART UNIT	PAPER NUMBER		
CARROLI				2826		
				DATE MAILED: 06/07/20		

Please find below and/or attached an Office communication concerning this application or proceeding.

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• .		Application No.	Applicant(s)	
Office Action Commence		10/721,524	BLANCHARD ET AL.	
	Office Action Summary	Examiner	Art Unit	•
	71 MAN 100 DATE	Fazli Erdem	2826	***
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	orrespondence address	
VVHIO - Exte after - If NO - Failt Any	IORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAMPS on a string may be available under the provisions of 37 CFR 1.13 or SIX (6) MONTHS from the mailing date of this communication. Depend for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status				
2a)	Responsive to communication(s) filed on 10 M. This action is FINAL. 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		
Disposit	ion of Claims			
5)⊠ 6)⊠	Claim(s) 13-27,34-47 and 50-52 is/are pending 4a) Of the above claim(s) is/are withdray Claim(s) 13-27 and 34-46 is/are allowed. Claim(s) 47 and 50-52 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.		
Applicati	ion Papers			
10)	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the Ex	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).	
Priority ι	under 35 U.S.C. § 119			
12) □ a)l	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priorical application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been receive I (PCT Rule 17.2(a)).	on No ed in this National Stage	
	e of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO-413)	
2) 🔲 Notic 3) 🔯 Inforr	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date <u>2/3,2/25,3/10,5/9</u> .	Paper No(s)/Mail Da		

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DETAILED ACTION

Allowable Subject Matter

1. Claims 13-27 and 34-46 allowed.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 47 and 50-52 rejected under 35 U.S.C. 103(a) as being unpatentable over Shaw et al. (5,847,454) in view of Dhuler et al. (6,410,361).

Regarding Claims 47 and 50-52, Shaw et al. disclose electrically isolated released microstructures where in Fig. 3, it is disclosed a semiconductor substrate 50, a trench 54 extending in the semiconductor substrate, a beam 52 positioned within the trench coupled at a first portion therefor to the substrate and movable at a second portion thereof with respect to the substrate. Shaw et al. fail to disclose the required detection configuration. However, Dhuler et al disclose methods for fabricating in-plane MEMS thermal actuators where in Fig. 5E the required detection configuration is disclosed.

It would have been obvious to one of having ordinary skill in the art at the time the invention was made to include the required detection configuration in Shaw et al. as taught by Dhuler et al. in order to have a MEMS structure with increased sensitivity with low power applications.

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NATHAZI J. FLYNN

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fazli Erdem whose telephone number is (571) 272-1914. The examiner can normally be reached on M - F 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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May 29, 2006